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34. — *An Elementary Treatise on Plane and Spherical Trigonometry, with their Applications to Navigation, Surveying, Heights and Distances, and Spherical Astronomy, and particularly adapted to explaining the Construction of Bowditch's Navigator and the Nautical Almanac.* By BENJAMIN PEIRCE, LL. D., Perkins Professor of Astronomy and Mathematics in Harvard University, and Consulting Astronomer to the American Ephemeris and Nautical Almanac. Revised Edition. Boston and Cambridge: James Munroe & Co. 1861. 12mo. pp. 359. Plates 6.

THIS volume possesses a rare beauty in its completeness and compactness. The student is not suffered to dally along through the extra-mathematical details, which are often connected with applied trigonometry, and which draw off the thought from the fundamental formulas of the science. The whole of such material contained in this volume can hardly exceed a couple of pages. The learner is carried rapidly on from the primal formulas of trigonometry to their various uses, and is never permitted to lose sight of them. The problems which he is required to solve are so shaped and arranged as to furnish the surest test of his attainments. In the treatise there is no repetition of ground once passed over; but the student must go back for himself to what has grown dim in his recollection. We hardly know how to express in sufficiently few words the difference in which, as we think, lies the superiority of this over other treatises that cover the same ground; but we will make the attempt. In most other treatises that we have seen, surveying, navigation, and the measurement of heights and distances, are treated as separate arts, rather than as applications of one and the same science, and the learner is occupied to such a degree with non-scientific details and mere arbitrary processes, as to lose the freshness and clearness of his scientific knowledge while he is carrying it into practice. In Professor Peirce's treatise, he is conscious of studying trigonometry on every page, and is deepening and vivifying his knowledge of first principles from the beginning to the end of the book.

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35. — *A Manual of English Pronunciation and Spelling: containing a full Alphabetical Vocabulary of the Language, with a Preliminary Exposition of English Orthoëpy and Orthography; and designed as a Work of Reference for general Use, and as a Text-Book in Schools.* By RICHARD SOULE, JR., A. M., and WILLIAM A. WHEELER, A. M. Boston: Soule and Williams. 1861. 12mo. pp. 467.

THIS work has been prepared with exquisite skill and care.* The